
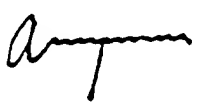


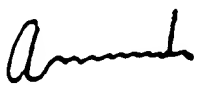



FIG 1

Path # used in the prototype study notebook	Silhouette	Definition of Profile
.001		Capital "A" with no "poles" or "holes" (No protruding letters like "b, d, h, k, l" above midline or below baseline such as "g, p, y, z, x, etc.")
.002		Capital "A" with one "hole" (down stroke) somewhere in the middle of the word --at least one letter away from the capital "A" and not at the end.
.003		Capital "A" with one "hole" (down stroke) at the end.
.005		Capital "A" with one "pole" (high stroke) somewhere in the middle of the word --at least one letter away from the capital "A" and not at the end or next to the end.
.006		Capital "A" with one "pole" (high stroke) located one letter away from the end -- such as "-le, -ly, -de, -te, -dy, -by, etc."
.007		Capital "A" with one "pole" (high stroke) located at the end.


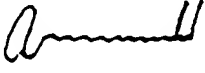
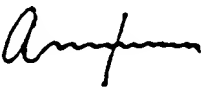


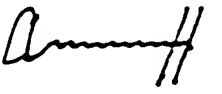






Path # used in the prototype study notebook	Silhouette	Definition of Profile
.025		Capital "A" with two adjacent "poles" (two consecutive up strokes) somewhere in the middle of the word -- at least one letter away from the capital "A" and not at the end
.043		Capital "A" with two adjacent "poles" (two consecutive up strokes) at the terminal end.
.052		Capital "A" with "pole" fused with a "hole" creating a continuous line that breaks both the upper and lower horizon lines. --- This would recognize the present day cursive letter "f" and could also filter 18th century words for the old style "s". <i>f</i>
.092		Terminal "P" or 18th century "s" (<i>f</i>)
.102		Double "P" or double 18th century "s" located in the middle of the name.
.120		Double terminal "P" or 18th century "s" at end of the word.

Fig 2B


 +
 
 →
 

Fy 3A

The same two prime profiles could be fused in the opposite order to yield a "5 - 2" hybrid.


 +
 
 →
 

FIS 3B

2025 RELEASE UNDER E.O. 14176

Naming First Syllable Blends:

"high profile" letters or "Talls"	Prime #	"low profile" letters (gophers)	Prime #	both High and Low profile letter	Prime #	First Syllable Blend	FILE #	Definition
						A---	10.	"A" \ no high profile in adjacent position
b	1					Ab---	110.	"Ab"-- only one high profile letter followed by median
						Abb---	111.	"Abb"-- two high profile letters adjacent to "A"
d	2					Ad---	120.	2nd letter "high" 3rd letter "median"
						Adb--	121.	2 "Highs" (d b)
						Add--	122.	2 "Highs" (d d)
						Adk--	124.	2 "Highs" (d k)
						Adl---	125.	2 "Highs" (d l)

FIG 4

CHENANGO COUNTY, NEW YORK

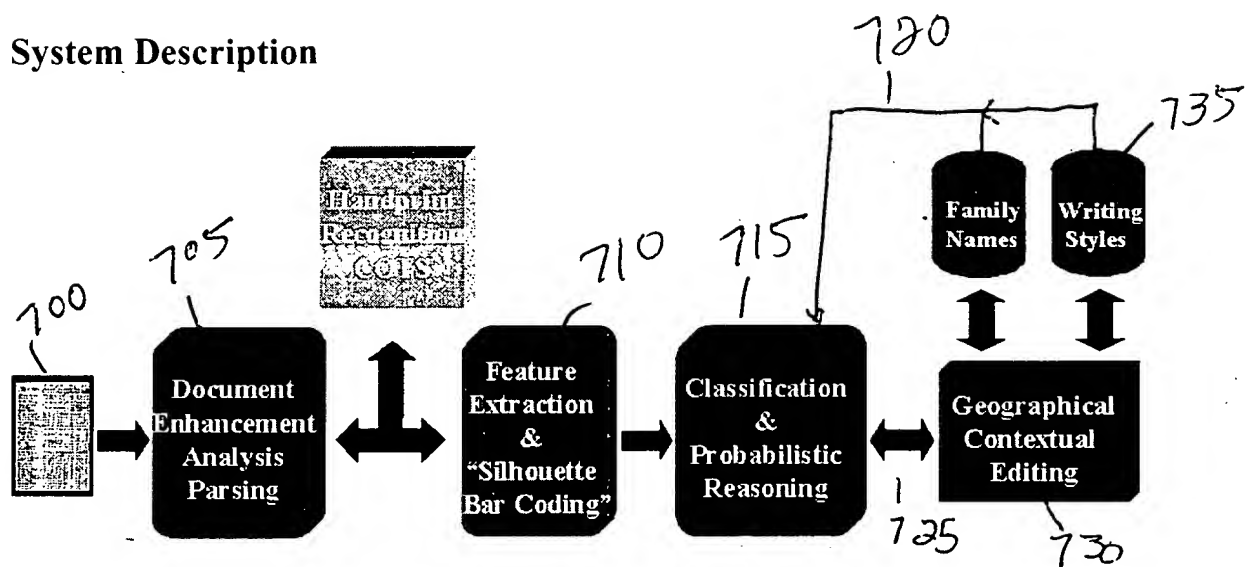
Town	Photocopy of Document (N.Y. Tax Rolls - 1800)	Path # (Zip Code)	Hybridization Factors	Silhouette	Digitized Name
Brookfield					
1	Amos Zebulon	10.001	-	Am	Amos
2	Anderson William	10.016	5.2	And	Anderson
3	Anderson William	10.061	5.52	And	Anderson
4	Allen Hyokiah	155.001	-	Al	Allen
5	Abbey Daniel	111.003	-	Ab	Abbey
Cazenovia					
7	Alger Oliver	153.002	-	Al	Alger
8	Alger David	same	-	same	same
9	Adams Daniel	120.001	-	Ad	Adams
9	Allen William	155.001	-	Al	Allen
10	Anderson William	10.005	-	And	Anderson
11	Abby Richard	111.003	-	Ab	Abby
12	Aldridge Denty	152.016	5.2	Al	Aldridge
13	Aditt Henry	120.043	-	Ad	Aditt
14	Alsworth Jasper	150.043	-	Al	Alsworth
15	Anderson Harmon	10.005	-	And	Anderson
16	Aldridge Joseph	152.016	5.2	Al	Aldridge
17	Arnold Pelly	10.043	-	Ar	Arnold
18	Alvord Benjamin	150.007	-	Al	Alvord
19	Alvord Ira	same	-	same	same
20	Abell Isber	110.043	-	Ab	Abell
21	Annis Oliver	10.001	-	An	Annis (Amis)
22	Abbat Willard	111.007	-	Ab	Abbat (Abbat)
23	Austin Caleb	10.005	-	Au	Austin
24	Aber William	110.001	-	Ab	Aber
25	Ashard Samuel	10.023	5.7	As	Ashard *
26	Allverton William	155.005	-	Al	Allverton
7168					
RS					

* Name found in 1800 N.Y. tax rolls, but not in West L.A. phone book
Consequently, this would not have been included in a spellcheck list

10-001	10-002	10-003	10-004	10-005	10-006	10-007	10-008	10-009	10-010
10-001	PRIME	PRIME	2-3	PRIME	PRIME	PRIME	2-2	2-3	2-3-3
10-001	Am	Art	Amey	Amey	Amey	Amey	Amey	Amey	Amey
Amouette									
				Acken					
Aaron				Acker	Acevedo	Acret			
Aaronsen				Ackerman					
				Ackermann					
Accas				Ackerson					
Acamon				Accon	Acosta				
Acres				Ainslie					
Acaves				Amber		Amel			
				Ambers		Amick			
Ain		Airey		Amcrose		Amound			
Ainis				Ambrosini					
Airs				Ambrosio					
				Amiani					
Ames	Amparo	Amey		Amier					
Amies	Ambers	Amery		Amiin					
Amiri				Anastasi		Anisa		Angelino	
Amirian	Amvas			Anderson		Annard		Angelis	
Amis				Andersson		Ansei		Anqin	
Amiss				Andiman				Anqsten	
Ammerman				Andrew					
Ammons				Andrews					
Amos				Andrus					
Amron				Anker					
				Ankers					
Anis	Angres			Annakin					
Anisman		Anning		Anselmo					
Annis	Anquiano			Anslie					
Ansin		Ansary		Anstie					
Anson		Ansav		Antin				Anzalone	
Ansan				Anton					
Anwar	Angus								
	Anqwin			Artisser		Arch		Arquenta	2-3
Arenson	Anyan			Archie	Ariola	Armench		Arnnigton	
Arias		Arcay		Archer	Amenta	Armand			
Aris		Arney		Arden	Aruda	Armond			
Anson		Aronowicz		Arden					
Armer	Aragon			Ardmore					
Armon	Araiza			Arduser					
Armour	Ariza			Arlen					
Arnesen				Ascher		Ash			
Aron				Asher					
Aronson				Ashenan					
Aronow				Ashman					
Arrow				Ashmore					
				Ashouri					
Asimov				Askari					
Asner				Askin					
				Askew					
Auer				Aster					
Aves				Aston		Auch		Augustein	
Avin		Avery		Austen	Avila			Augustine	
1/6/99 Avins				Austin		Aveni			

Fig. 6

System Description



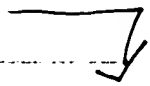
System Block Diagram

§ Preprocessing:

FIG 7

800

Define cursive field widths
& printing (integers)
& column delimiter



805

Get word both
& word zones
waistline, centerline baseline

810

Noise removal
Stray marks/distance

815

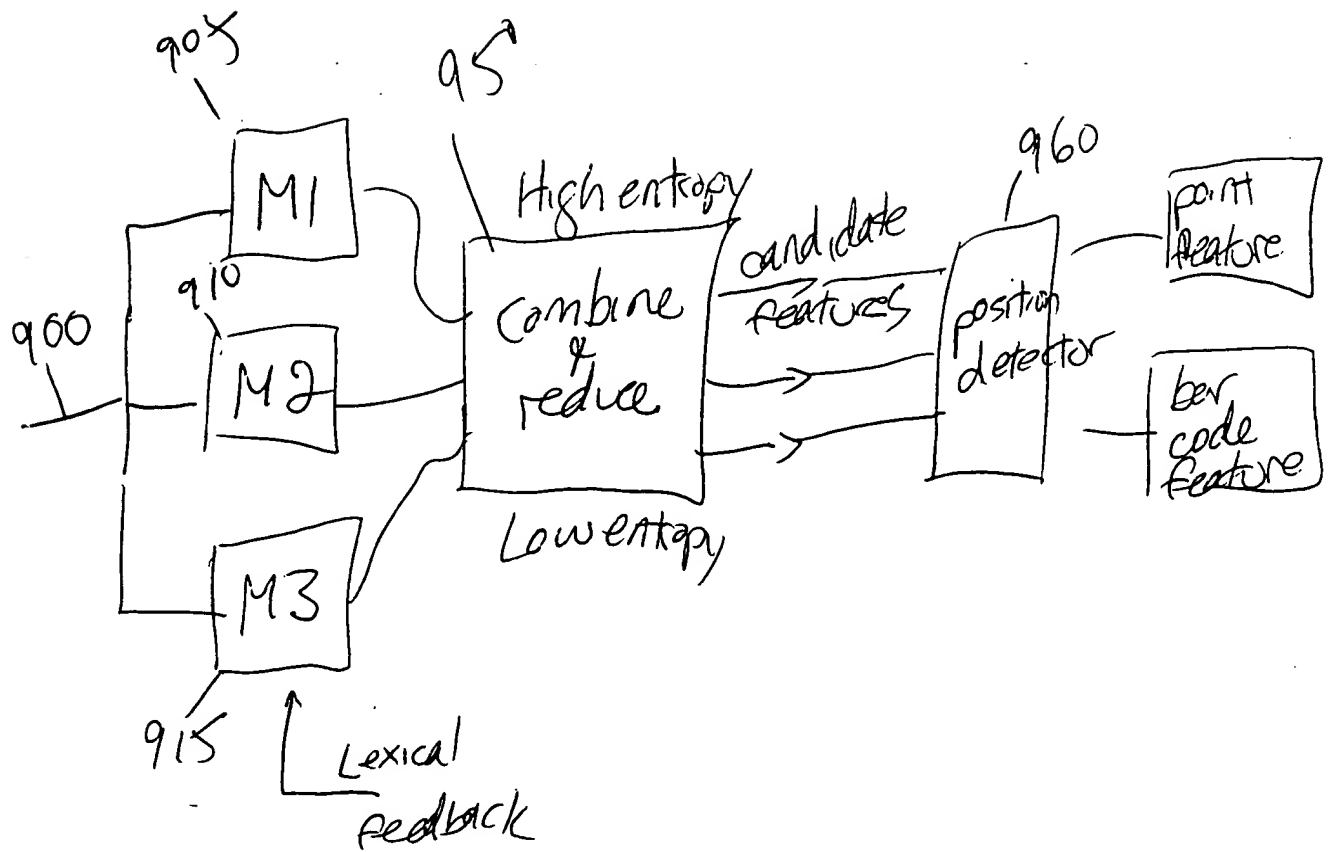
Thinning skeletonization

820

Height normalization
Preserve aspect ratio

(A)

F168



F 169

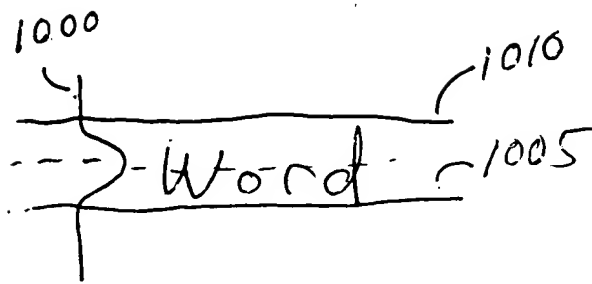


FIG 10

1000 1010 1005

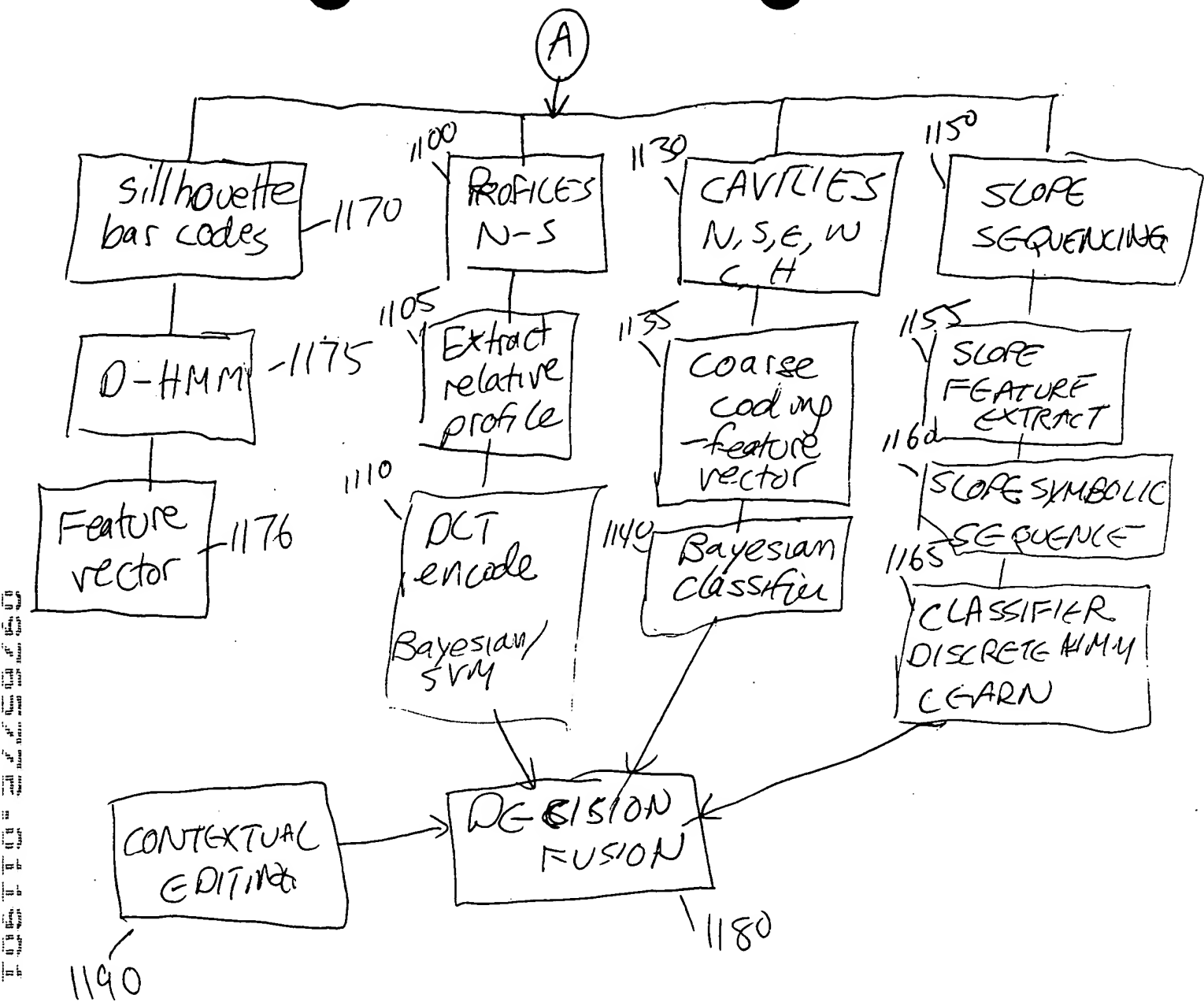


FIG 11

Figure 12. The north (blue) and south (red) profiles extracted from the cursive name Catharine.

Catharine

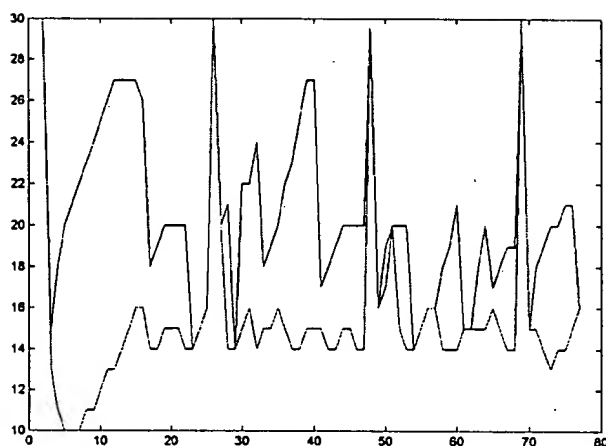


FIG. 12



North



West



Word



East



Holes



South



Center

Figure 13. Cavity feature extraction results.

FIG. 13